

Linear Synchronous iron-less two-phase Motor series LSIM-P-40-252*50

Photo of forcer of LSIM-P-252x50



Photo of axis with LSIM- P-252x50



Parameter	Symbol	Unit	LSIM-P-40-252*50
			FE
Peak force (coil at 20°C)	Fp	N	576
Continuous force (coil at 120°C), water cooling	Fw	N	262
Continuous force (coil at 120°C), air cooling	Fa	N	131
Recommended supply voltage DC	Us	V	310
Motor constant (coil at 20°C)	Ko	N/√W	183.3
Peak power dissipation (coil at 20°C)	Pp	W	1785
Continuous power dissipation (coil at 120°C), water cooling	Pw	W	370
Continuous power dissipation (coil at 120°C), air cooling	Pa	W	93
Coolant flow for temperature difference 5°C by power Pw	Cf	L/min	1.1
Maximum velocity at Fp and Us (Coil at 20°C)	Vp	m/s	4.2
Maximum velocity at Fw and Us (Coil at 20°C)	Vw	m/s	5.7
Maximum velocity at Fa and Us (Coil at 20°C)	Va	m/s	6.4
Peak current (RMS) at Fp and V=0	Ip	Arms	10.6
Continuous current at 120°C with water cooling at Fw and V=0	Iw	Arms	4.8
Continuous current at 120°C with air cooling at Fa and V=0	Ia	Arms	2.4
Efficiency at Mw and 540V DC (Coil at 20°C)	Ew	%	80.3
Back EMF constant (*) (peak phase-phase)	Ku	V/(m/s)	38.3
Electrical resistance at 20°C (*)	R	Ohm	8.00
Electrical inductance (*)	L	mH	4.20

* value «terminal-terminal»